Experiment Number: 10119 - 01 P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/03/2014

AVERAGE SEVERITY GRADES[b]

Test Type: CHRONIC Time Report Requested: 08:42:42 Furan

Route: GAVAGE **CAS Number:** 110-00-9 First Dose M/F: 09/07/09 / NA Species/Strain: RATS/F 344/NCTR

Lab: NCTR

104 Week

Include 005 0.2 Furan 104 wk

Include 008 2 Furan 104 wk

C10119 **NTP Study Number:**

06/02/2014 Lock Date:

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

ALL Removal Date Range:

Treatment Groups: Include 001 0 Vehicle 104 wk

Include 004 0.092 Furan104wk

Include 007 0.92 Furan 104wk

Male

TDMSE Version: 3.0.2.0_001

PWG Approval Date: NONE

Study Gender:

Include 002 0.02 Furan 104wk Include 003 0.044 Furan104wk

Include 006 0.44 Furan 104wk

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan
CAS Number: 110-00-9

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Disposition Summary						
Animals Initially In Study	150	150	100	100	50	50
Early Deaths						
Accidentally Killed				1		
Moribund Sacrifice	71	68	45	38	19	20
Natural Death	8	3	7	6	2	5
Survivors						
Moribund Sacrifice	24	30	17	25	12	11
Natural Death	2	7	3	2	1	1
Terminal Sacrifice	45	42	28	28	16	13
Animals Examined Microscopically	150	150	100	100	50	50
ALIMENTARY SYSTEM						
Esophagus	(150)	(150)	(100)	(100)	(50)	(50)
Bacterium				1		
Hemorrhage				1 [4.0]		
Inflammation, Suppurative				1 [4.0]		
Necrosis				1 [4.0]		
Perforation					2 [4.0]	
Ulcer				1 [4.0]		
Lumen, Dilatation	1 [4.0]					
Periesophageal Tissue, Foreign Body						
Periesophageal Tissue, Hemorrhage				1 [2.0]		
Periesophageal Tissue, Infiltration Cellular, Polymorphonuclear						
Periesophageal Tissue, Necrosis				1 [2.0]		
Intestine Large, Cecum	(140)	(142)	(91)	(93)	(47)	(44)
Edema		1 [4.0]				
Hemorrhage						
Inflammation, Suppurative		1 [4.0]				
Ulcer		1 [4.0]				
Lumen, Dilatation		1 [2.0]				
Mucosa, Hyperplasia		1 [2.0]	1 [2.0]		1 [2.0]	1 [2.0]
Intestine Large, Colon	(143)	(146)	(94)	(95)	(49)	(44)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Edema	1 [3.0]					
Inflammation, Chronic Active						
Necrosis	1 [2.0]					
Ulcer						
Epithelium, Cyst		1				
Mucosa, Hyperplasia		1 [1.0]	1 [2.0]		1 [2.0]	
Serosa, Inflammation, Chronic Active				1 [3.0]		
Intestine Large, Rectum	(143)	(146)	(94)	(95)	(49)	(45)
Anus, Inflammation, Chronic				1 [3.0]		
Mucosa, Hyperplasia		1 [1.0]			1 [2.0]	1 [2.0]
Intestine Small, Duodenum	(144)	(145)	(94)	(95)	(48)	(44)
Inflammation, Suppurative						1 [2.0]
Inflammation, Chronic Active	1 [3.0]	1 [3.0]				
Necrosis						1 [2.0]
Ulcer		1 [3.0]				
Mucosa, Hyperplasia	8 [2.4]	8 [2.6]	3 [2.7]	2 [2.5]	4 [2.3]	3 [2.0]
Intestine Small, Ileum	(139)	(142)	(91)	(92)	(47)	(44)
Necrosis	1 [2.0]					
Mucosa, Hyperplasia		1 [2.0]	1 [2.0]		1 [2.0]	
Intestine Small, Jejunum	(140)	(142)	(91)	(93)	(47)	(44)
Edema	1 [2.0]					
Infiltration Cellular, Polymorphonuclear	1 [4.0]					
Inflammation, Chronic Active			1 [3.0]			
Mucosa, Hyperplasia			2 [3.0]		1 [2.0]	
Serosa, Hemorrhage			1 [3.0]			
Serosa, Necrosis			1 [4.0]			
Liver	(149)	(150)	(99)	(100)	(50)	(49)
Angiectasis				1 [4.0]		
Basophilic Focus	28	16	19	18	11	13
Cholangiofibrosis				1 [1.0]	38 [1.7]	49 [2.6]
Clear Cell Focus	6	4	2	1	1	
Congestion				1 [2.0]		
Deformity	5	4	1	2	1	
Degeneration, Cystic	25 [1.6]	7 [1.4]	11 [1.7]	15 [1.9]	8 [1.6]	11 [1.8]
Eosinophilic Focus	2	1		1	1	2
Fibrosis	1 [4.0]		1 [2.0]	1 [3.0]	1 [2.0]	

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Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan
CAS Number: 110-00-9

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Granuloma	27 [1.2]	27 [1.4]	18 [1.4]	20 [1.3]	2 [1.0]	7 [1.7]
Hematopoietic Cell Proliferation						
Hemorrhage		2 [3.0]	2 [4.0]			
Hepatodiaphragmatic Nodule	4	3	3			1
Hyperplasia, Regenerative		1 [4.0]	1 [4.0]	2 [2.5]	1 [3.0]	1 [2.0]
Inflammation, Suppurative						2 [2.0]
Inflammation, Chronic Active	5 [2.0]	2 [2.0]		1 [2.0]		
Mixed Cell Focus	7	7	6	3	5	3
Pigmentation	1 [2.0]		1 [2.0]			3 [3.7]
Polyarteritis	1 [4.0]					
Tension Lipidosis	3 [2.7]	3 [3.3]	4 [2.0]	2 [4.0]	1 [2.0]	
Thrombosis	4	2	1			
Vacuolization Cytoplasmic	23 [2.3]	23 [2.2]	14 [2.1]	19 [2.3]	12 [3.0]	18 [3.0]
Bile Duct, Biliary Tract, Cyst Multilocular	1					
Bile Duct, Biliary Tract, Hyperplasia	89 [1.4]	86 [1.6]	59 [1.5]	56 [1.6]	29 [2.0]	25 [2.9]
Bile Duct, Subcapsular, Hyperplasia						
Capsule, Fibrosis		1 [3.0]	1 [1.0]	1 [3.0]	1 [2.0]	
Capsule, Infiltration Cellular, Polymorphonuclear	1 [4.0]					
Capsule, Inflammation, Chronic Active		1 [4.0]				
Capsule, Necrosis		1 [4.0]				
Capsule, Pigmentation	1 [4.0]					
Centrilobular, Hepatocyte, Degeneration	29 [2.7]	25 [2.5]	18 [2.7]	16 [2.2]	13 [2.5]	11 [3.2]
Centrilobular, Hepatocyte, Necrosis	1 [4.0]	2 [4.0]				1 [4.0]
Hepatocyte, Hypertrophy			1 [3.0]		1 [4.0]	2 [2.5]
Hepatocyte, Necrosis	12 [2.1]	9 [2.3]	8 [2.1]	4 [1.8]	6 [1.8]	2 [2.0]
Hepatocyte, Periportal, Degeneration					1 [4.0]	
Oval Cell, Hyperplasia	14 [2.2]	15 [2.5]	10 [2.0]	8 [2.1]	7 [2.1]	6 [2.7]
Periportal, Cytoplasmic Alteration						1 [2.0]
Periportal, Vacuolization Cytoplasmic	34 [1.9]	27 [2.3]	18 [1.8]	12 [1.8]	4 [3.3]	7 [2.1]
Subcapsular, Fibrosis					1 [1.0]	
Subcapsular, Inflammation, Chronic					1 [1.0]	1 [1.0]
Subcapsular, Pigmentation					1 [1.0]	
Mesentery	(31)	(35)	(25)	(25)	(14)	(8)
Accessory Spleen	1		. ,	. ,	. ,	. ,
Cyst			1			

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Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Inflammation, Granulomatous			1 [4.0]	1 [4.0]		
Inflammation, Chronic Active		1 [4.0]				
Mineralization						
Pigmentation		1 [4.0]				
Fat, Hemorrhage	1 [4.0]	1 [4.0]		1 [4.0]		
Fat, Necrosis	28 [3.8]	31 [3.9]	24 [3.8]	23 [3.9]	13 [3.8]	7 [3.7]
Oral Mucosa	(1)	(1)	(3)	(1)	(0)	(1)
Hemorrhage			1 [3.0]			
Inflammation, Chronic Active						1 [2.0]
Epithelium, Hyperplasia			1 [2.0]			
Gingival, Ulcer						1 [3.0]
Pancreas	(150)	(149)	(99)	(100)	(50)	(49)
Edema		1 [4.0]		1 [3.0]		
Infiltration Cellular, Lymphocyte					1 [1.0]	
Inflammation, Chronic Active	1 [4.0]					
Necrosis	1 [4.0]					
Pigmentation						1 [4.0]
Polyarteritis	1 [3.0]		3 [2.7]	1 [2.0]		1 [4.0]
Acinar Cell, Hyperplasia	26 [2.6]	16 [2.9]	17 [2.9]	17 [2.6]	9 [3.1]	7 [2.4]
Acinus, Degeneration	32 [1.8]	39 [2.1]	21 [2.1]	17 [1.8]	17 [1.9]	11 [2.3]
Artery, Fibrosis						
Artery, Hyperplasia	1 [4.0]	1 [4.0]				
Salivary Glands	(150)	(150)	(99)	(100)	(50)	(49)
Infiltration Cellular, Lymphocyte			1 [1.0]	1 [1.0]		
Acinar Cell, Hyperplasia	1 [4.0]					
Acinus, Degeneration			1 [2.0]	1 [2.0]		
Stomach, Forestomach	(149)	(150)	(99)	(100)	(50)	(49)
Edema	27 [3.0]	22 [3.2]	13 [2.6]	16 [3.1]	15 [2.7]	12 [2.8]
Fibrosis	1 [4.0]		1 [4.0]		1 [4.0]	
Hyperplasia, Basal Cell	1 [1.0]					
Inflammation, Chronic Active	33 [2.5]	31 [2.7]	18 [2.6]	19 [2.6]	14 [3.0]	15 [2.4]
Necrosis	1 [2.0]	1 [3.0]	2 [4.0]			
Perforation	5 [4.0]	5 [4.0]	2 [4.0]	4 [4.0]	5 [4.0]	2 [4.0]
Ulcer	13 [3.2]	17 [3.1]	11 [3.5]	7 [3.1]	5 [2.8]	9 [3.1]
Epithelium, Hyperplasia	41 [2.6]	41 [2.6]	22 [2.6]	24 [2.7]	19 [2.4]	17 [2.4]
Serosa, Fibrosis	3 [2.7]	4 [3.0]	3 [2.7]	1 [3.0]	3 [3.7]	

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First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Serosa, Inflammation, Suppurative		1 [4.0]				
Serosa, Inflammation, Chronic Active	1 [2.0]					
Serosa, Necrosis		1 [4.0]				
Stomach, Glandular	(146)	(145)	(96)	(97)	(49)	(44)
Edema	1 [2.0]	5 [3.0]		2 [4.0]	3 [3.0]	1 [2.0]
Inflammation, Chronic Active	3 [3.0]	3 [2.3]	2 [2.0]	2 [3.5]	3 [2.0]	1 [2.0]
Mineralization		1 [2.0]	2 [3.5]	1 [2.0]		
Necrosis		1 [3.0]	1 [2.0]			1 [2.0]
Ulcer	2 [3.0]	1 [4.0]			1 [2.0]	2 [2.0]
Mucosa, Hyperplasia	6 [2.2]	12 [2.2]	5 [2.6]	5 [2.0]	4 [2.0]	3 [2.3]
Tongue	(1)	(1)	(1)	(2)	(0)	(0)
Foreign Body	()	()	1	()	(-)	(-7
Inflammation, Chronic Active			1 [2.0]			
Epithelium, Hyperplasia			1 [3.0]	1 [2.0]		
CARDIOVASCULAR SYSTEM						
Blood Vessel	(150)	(150)	(100)	(100)	(49)	(50)
Hemorrhage	, ,	, ,	, ,	, ,	1 [4.0]	, ,
Inflammation, Chronic		1 [2.0]				
Mineralization						
Heart	(150)	(150)	(100)	(100)	(50)	(50)
Cardiomyopathy	134 [2.3]	138 [2.1]	86 [2.1]	89 [2.1]	47 [2.0]	46 [1.9]
Congestion	1 [4.0]	1 [4.0]				
Foreign Body		• •				
		4 [0 0]		1 [4.0]		
Hemorrhage		1 [2.0]				
Hemorrhage Inflammation. Granulomatous		1 [2.0]		1 [1.0]		
Inflammation, Granulomatous		1 [2.0]				
Inflammation, Granulomatous Inflammation, Chronic Active		1 [2.0]	1 [2.0]	1 [1.0]		
Inflammation, Granulomatous	2 [3.0]		1 [2.0] 4 [2.5]	1 [1.0]	1 [1.0]	1 [4.0]
Inflammation, Granulomatous Inflammation, Chronic Active Metaplasia, Osseous Mineralization	2 [3.0]	2 [3.0]	4 [2.5]		1 [1.0]	1 [4.0]
Inflammation, Granulomatous Inflammation, Chronic Active Metaplasia, Osseous Mineralization Pigmentation		2 [3.0] 1 [2.0]	4 [2.5] 1 [2.0]	1 [1.0] 1 [2.0]		
Inflammation, Granulomatous Inflammation, Chronic Active Metaplasia, Osseous Mineralization Pigmentation Thrombosis	22	2 [3.0]	4 [2.5] 1 [2.0] 17	1 [1.0]	1 [1.0] 9	1 [4.0] 7
Inflammation, Granulomatous Inflammation, Chronic Active Metaplasia, Osseous Mineralization Pigmentation		2 [3.0] 1 [2.0]	4 [2.5] 1 [2.0]	1 [1.0] 1 [2.0]		

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Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan
CAS Number: 110-00-9

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First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Pericardium, Hemorrhage				1 [4.0]		
Pericardium, Infiltration Cellular, Polymorphonuclear						
Pericardium, Inflammation, Suppurative				1 [3.0]	1 [4.0]	
Pericardium, Inflammation, Chronic Active				1 [2.0]		
Pericardium, Necrosis				2 [3.5]	1 [4.0]	
Ventricle, Dilatation	2 [4.0]		3 [3.7]	1 [3.0]		2 [3.5]
ENDOCRINE SYSTEM						
Adrenal Cortex	(150)	(150)	(99)	(100)	(50)	(49)
Accessory Adrenal Cortical Nodule	4	10	2	8		1
Angiectasis		1 [4.0]				
Atrophy		1 [3.0]				
Cyst	3	1	1			1
Fibrosis	1 [2.0]	1 [2.0]			1 [1.0]	
Hyperplasia	10 [2.3]	5 [2.0]	5 [1.8]	7 [1.7]	1 [1.0]	3 [2.7]
Hypertrophy		1 [2.0]	4 [2.3]	1 [3.0]		1 [2.0]
Metaplasia, Osseous				1 [3.0]		
Necrosis	2 [1.5]	1 [2.0]				
Pigmentation		1 [2.0]				
Polyarteritis	1 [1.0]					
Thrombosis	2					
Vacuolization Cytoplasmic	121 [2.3]	114 [2.4]	69 [2.3]	74 [2.2]	45 [2.5]	34 [2.3]
Capsule, Fibrosis				1 [2.0]	2 [2.5]	
Adrenal Medulla	(150)	(150)	(99)	(100)	(50)	(49)
Fibrosis			1 [3.0]		1 [4.0]	
Hemorrhage	1 [4.0]	1 [4.0]			1 [4.0]	
Hyperplasia	67 [1.9]	74 [1.9]	45 [1.9]	35 [2.4]	27 [2.0]	18 [2.1]
Mineralization	1 [2.0]	1 [3.0]	1 [4.0]		1 [4.0]	
Necrosis					1 [4.0]	
Thrombosis	1	2	3			
Islets, Pancreatic	(150)	(150)	(99)	(100)	(50)	(49)
Angiectasis			1 [3.0]			
Hyperplasia	3 [3.3]	8 [2.3]	7 [2.3]	3 [1.7]	1 [1.0]	

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Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan **CAS Number:** 110-00-9

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FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Necrosis						
Parathyroid Gland	(149)	(150)	(98)	(98)	(50)	(49)
Angiectasis	1 [2.0]					
Fibrosis						
Hyperplasia	38 [1.5]	25 [1.6]	11 [2.0]	15 [1.9]	8 [1.6]	5 [1.6]
Pituitary Gland	(150)	(148)	(100)	(100)	(50)	(49)
Hemorrhage	3 [4.0]	5 [4.0]	4 [4.0]	7 [4.0]	4 [4.0]	3 [4.0]
Pigmentation	1 [4.0]	1 [3.0]			1 [4.0]	
Pars Distalis, Angiectasis	1 [3.0]	1 [2.0]	1 [3.0]	2 [3.0]		
Pars Distalis, Cyst	12	5	4	5	3	3
Pars Distalis, Hyperplasia	27 [2.1]	29 [2.5]	28 [2.5]	23 [2.1]	7 [2.3]	11 [2.6]
Pars Distalis, Necrosis		1 [3.0]	1 [4.0]		1 [4.0]	
Pars Intermedia, Cyst	3		1			
Pars Intermedia, Hyperplasia						
Pars Nervosa, Cyst				1		
Pars Nervosa, Hyperplasia	1 [2.0]					
Rathke's Cleft, Cyst	1				1	
Thyroid Gland	(150)	(150)	(99)	(100)	(50)	(49)
Cyst	,	,	,	` 1 ´	,	,
Ectopic Thymus		1				
Fibrosis		1 [2.0]	1 [3.0]			
Ultimobranchial Cyst		. []	1			
C-cell, Hyperplasia	95 [1.5]	83 [1.3]	53 [1.5]	52 [1.4]	29 [1.5]	28 [1.5]
Follicle, Cyst	8	6	4	3	5	1
Follicular Cell, Hyperplasia	-	2 [1.5]	1 [2.0]	1 [1.0]	-	
GENERAL BODY SYSTEM						
Peritoneum	(1)	(5)	(1)	(0)	(0)	(1)
Pigmentation	(1)	1 [4.0]	(1)	(0)	(0)	(1)
Tissue NOS	(2)	(1)	(2)	(2)	(0)	(0)
Hemorrhage	1 [4.0]	(1)	(4)	(4)	(0)	(0)
Inflammation, Suppurative	1 [4.0]		1 [4.0]			
Necrosis	1 [4.0]		1 [4 .0]			
Mediastinum, Bacterium	1 [4.0]					
iviediastinum, pactenum						

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Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

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FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Mediastinum, Foreign Body Mediastinum, Hemorrhage Mediastinum, Inflammation, Suppurative Mediastinum, Inflammation, Chronic Mediastinum, Necrosis						
GENITAL SYSTEM						
Ductus Deferens	(0)	(1)	(0)	(0)	(0)	(0)
Epididymis	(149)	(149)	(98)	(100)	(50)	(50)
Degeneration, Cystic			1 [4.0]			
Edema						
Exfoliated Germ Cell	39 [2.4]	42 [2.3]	21 [2.1]	32 [2.2]	16 [2.3]	15 [2.3]
Fibrosis	2 [2.5]		3 [3.3]			2 [3.5]
Hypospermia	78 [3.8]	79 [3.6]	46 [3.6]	48 [3.7]	28 [3.5]	32 [3.7]
Epithelium, Degeneration	64 [2.9]	64 [2.7]	37 [2.9]	33 [2.6]	25 [2.8]	20 [3.1]
Fat, Necrosis	1 [4.0]				1 [4.0]	
Lumen, Dilatation				1 [3.0]		
Mesothelium, Hyperplasia						
Preputial Gland	(150)	(150)	(99)	(100)	(50)	(49)
Abscess	17 [4.0]	18 [4.0]	7 [4.0]	10 [4.0]	7 [4.0]	9 [4.0]
Edema		1 [4.0]				
Fibrosis	72 [2.6]	73 [2.7]	49 [2.5]	46 [2.5]	24 [2.7]	23 [2.5]
Hyperkeratosis	3 [4.0]			3 [4.0]		
Infiltration Cellular, Lymphocyte	1 [4.0]					
Inflammation, Suppurative	61 [3.5]	65 [3.4]	38 [3.3]	35 [3.3]	23 [3.5]	13 [3.1]
Inflammation, Chronic Active	66 [2.5]	62 [2.5]	49 [2.7]	45 [2.4]	21 [2.3]	30 [2.6]
Necrosis	3 [3.0]	2 [4.0]	1 [4.0]	2 [4.0]		1 [4.0]
Ulcer				1 [4.0]		
Acinus, Degeneration		1 [4.0]				
Acinus, Hyperplasia	5 [3.2]	10 [2.5]	3 [2.3]		6 [2.3]	
Duct, Ectasia	81 [3.1]	78 [3.1]	49 [3.2]	48 [3.2]	33 [3.3]	22 [3.2]
Epithelium, Hyperplasia	3 [2.7]	2 [3.5]		1 [4.0]		
Prostate	(149)	(150)	(98)	(100)	(50)	(49)
Abscess		1 [4.0]				

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Atrophy	27 [2.4]	29 [2.5]	15 [2.7]	14 [2.4]	7 [2.1]	12 [2.7]
Degeneration, Cystic	5 [2.0]	6 [2.0]	2 [2.5]	3 [2.0]	2 [2.0]	1 [2.0]
Fibrosis	5 [3.8]	8 [3.1]	2 [3.0]	2 [3.5]	3 [3.7]	4 [4.0]
Infiltration Cellular, Lymphocyte	1 [2.0]					
Inflammation, Suppurative	100 [2.1]	108 [2.2]	74 [2.3]	70 [2.3]	38 [1.9]	35 [2.3]
Inflammation, Chronic Active	21 [2.0]	12 [1.8]	9 [2.2]	12 [1.8]	7 [2.4]	6 [2.3]
Mineralization		1 [2.0]	1 [2.0]			
Pigmentation		1 [4.0]				
Polyarteritis						
Epithelium, Hyperplasia	40 [2.0]	39 [1.9]	19 [1.6]	29 [1.9]	7 [1.6]	12 [1.8]
Seminal Vesicle	(143)	(146)	(96)	(98)	(50)	(46)
Atrophy	51 [2.7]	52 [2.6]	28 [2.9]	31 [2.5]	18 [2.5]	20 [2.9]
Edema	1 [3.0]					
Fibrosis					1 [4.0]	
Inflammation, Suppurative	2 [3.0]	2 [3.5]	1 [2.0]			
Inflammation, Chronic Active				1 [3.0]	1 [4.0]	
Adventitia, Inflammation, Suppurative						1 [4.0]
Epithelium, Hyperplasia		1 [4.0]				
Lumen, Dilatation	10 [2.3]	14 [2.3]	4 [2.3]	15 [2.6]	11 [2.4]	1 [2.0]
Serosa, Inflammation, Chronic Active				1 [3.0]		
Testes	(150)	(149)	(98)	(100)	(50)	(49)
Mineralization	1 [2.0]			1 [3.0]		
Polyarteritis	28 [1.7]	35 [1.7]	14 [1.6]	23 [1.8]	10 [1.6]	9 [1.6]
Interstitial Cell, Hyperplasia	71 [1.5]	72 [1.3]	49 [1.2]	42 [1.4]	21 [1.4]	22 [1.3]
Seminiferous Tubule, Degeneration	116 [3.2]	106 [3.2]	68 [3.2]	76 [3.2]	40 [3.2]	39 [3.4]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(148)	(150)	(95)	(100)	(49)	(49)
Fibrosis	3 [3.3]	1 [4.0]	, ,	2 [4.0]	1 [2.0]	1 [2.0]
Hyperplasia, Megakaryocyte						
Hypocellularity	1 [4.0]			1 [4.0]		
Myelostromal Proliferation		1 [4.0]		- ·		
Myeloid Cell, Hyperplasia	36 [2.9]	27 [2.9]	18 [2.6]	20 [3.0]	7 [2.7]	12 [2.9]
Lymph Node	(59)	(69)	(35)	(38)	(23)	(20)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan **CAS Number:** 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Hyperplasia, Lymphoid			1 [3.0]			1 [2.0]
Infiltration Cellular, Plasma Cell				1 [2.0]		1 [3.0]
Inflammation, Granulomatous						
Axillary, Hemorrhage	1 [2.0]					
Axillary, Hyperplasia, Lymphoid			1 [2.0]			
Axillary, Infiltration Cellular, Plasma Cell				1 [4.0]		
Axillary, Necrosis						
Cervical, Hemorrhage	1 [4.0]					
Cervical, Hyperplasia, Lymphoid	1 [2.0]					
Cervical, Infiltration Cellular, Plasma Cell	1 [4.0]			1 [2.0]		
Deep Cervical, Necrosis						
Hepatic, Hyperplasia, Lymphoid	1 [3.0]					1 [3.0]
Hepatic, Infiltration Cellular, Plasma Cell						1 [2.0]
Hepatic, Inflammation, Granulomatous	1 [3.0]	1 [3.0]				2 [3.0]
Hepatic, Necrosis						
Hepatic, Sinus, Dilatation						
Inguinal, Hyperplasia, Lymphoid				1 [1.0]		
Inguinal, Infiltration Cellular, Plasma Cell	1 [4.0]					1 [4.0]
Inguinal, Infiltration Cellular, Polymorphonuclear	1 [4.0]					
Lumbar, Hemorrhage		1 [2.0]				
Lumbar, Hyperplasia, Lymphoid	3 [2.0]	1 [2.0]	1 [3.0]	2 [3.0]		1 [1.0]
Lumbar, Infiltration Cellular, Histiocyte		1 [3.0]				
Lumbar, Infiltration Cellular, Plasma Cell	3 [3.0]	9 [2.7]	2 [3.5]	3 [3.7]	2 [4.0]	1 [4.0]
Lumbar, Infiltration Cellular, Polymorphonuclear				1 [4.0]		
Lumbar, Necrosis				1 [4.0]		
Lumbar, Pigmentation		1 [4.0]		1 [2.0]		
Lumbar, Sinus, Dilatation	7 [2.7]	11 [2.9]	2 [3.5]	5 [3.0]	2 [3.5]	1 [2.0]
Mediastinal, Congestion			1 [4.0]			
Mediastinal, Erythrophagocytosis		1 [4.0]				
Mediastinal, Hemorrhage		2 [3.0]	1 [2.0]	1 [2.0]		
Mediastinal, Hyperplasia, Lymphoid	3 [2.7]	2 [2.0]	1 [2.0]			
Mediastinal, Infiltration Cellular, Plasma Cell	4 [2.3]		2 [2.0]	2 [3.0]	3 [2.3]	1 [2.0]
Mediastinal, Necrosis						
Mediastinal, Pigmentation		2 [3.0]				

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan
CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104w
Mediastinal, Sinus, Dilatation		4 [2.5]	2 [2.0]	3 [2.3]	1 [2.0]	
Pancreatic, Bacterium				1		
Pancreatic, Hemorrhage	1 [2.0]		1 [4.0]			
Pancreatic, Hyperplasia, Lymphoid	5 [2.0]	5 [2.4]	4 [2.0]	2 [2.0]	1 [3.0]	3 [2.7]
Pancreatic, Infiltration Cellular, Histiocyte			1 [3.0]			
Pancreatic, Infiltration Cellular, Plasma Cell	6 [2.0]	4 [2.5]	2 [3.5]	4 [2.5]	5 [2.2]	4 [2.8]
Pancreatic, Inflammation, Granulomatous	3 [2.7]	3 [2.0]	2 [3.5]	2 [3.0]	1 [4.0]	
Pancreatic, Necrosis				1 [4.0]		
Pancreatic, Pigmentation			1 [2.0]		1 [3.0]	
Pancreatic, Sinus, Dilatation		1 [2.0]	1 [2.0]			
Popliteal, Infiltration Cellular, Plasma Cell		1 [4.0]				
Popliteal, Sinus, Dilatation		1 [3.0]				
Renal, Hemorrhage	1 [1.0]	1 [2.0]			1 [2.0]	
Renal, Hyperplasia, Lymphoid	4 [2.3]	4 [2.5]	1 [3.0]	1 [2.0]	1 [2.0]	1 [2.0]
Renal, Infiltration Cellular, Plasma Cell	4 [2.5]	2 [2.5]	3 [3.3]	4 [2.5]	3 [3.3]	2 [3.5]
Renal, Inflammation, Granulomatous		2 [2.5]				
Renal, Necrosis						
Renal, Pigmentation	2 [2.5]	1 [3.0]				1 [2.0]
Renal, Sinus, Dilatation	4 [2.3]	5 [2.0]	6 [3.3]	6 [2.2]	2 [3.0]	2 [2.0]
Lymph Node, Mandibular	(150)	(150)	(99)	(100)	(50)	(49)
Hemorrhage	7 [2.9]	3 [2.0]	1 [2.0]	3 [2.3]	, ,	2 [3.0]
Hyperplasia, Lymphoid	38 [1.9]	31 [1.8]	25 [1.7]	21 [2.0]	9 [1.8]	12 [1.8]
Infiltration Cellular, Plasma Cell	75 [2.2]	73 [2.2]	50 [2.0]	48 [2.3]	23 [2.2]	17 [2.2]
Necrosis				1 [2.0]		
Pigmentation		2 [2.5]				
Sinus, Dilatation	34 [2.1]	41 [2.2]	27 [2.6]	22 [2.6]	17 [2.2]	12 [2.3]
Lymph Node, Mesenteric	(147)	(146)	(93)	(97)	(49)	(47)
Hemorrhage	2 [1.5]	2 [1.5]	1 [4.0]	2 [2.0]	, ,	, ,
Hyperplasia, Lymphoid	42 [1.6]	41 [1.7]	29 [1.7]	23 [1.8]	12 [1.5]	16 [1.8]
Infiltration Cellular, Histiocyte					1 [3.0]	
Infiltration Cellular, Mast Cell	1 [3.0]					
Infiltration Cellular, Plasma Cell	13 [2.3]	11 [1.8]	2 [2.5]	16 [2.2]	4 [2.0]	4 [2.8]
Inflammation, Granulomatous	4 [3.0]	1 [2.0]	1 [3.0]	3 [2.3]	1 [4.0]	
Pigmentation	1 [2.0]	1 [2.0]	1 [3.0]	1 [3.0]		
Sinus, Dilatation	2 [2.0]	1 [2.0]	2 [1.5]	1 [2.0]	1 [2.0]	
Spleen	(150)	(149)	(98)	(100)	(50)	(49)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC **Route:** GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Accessory Spleen			1			
Atrophy						1 [4.0]
Cyst	1					
Developmental Malformation	1		1	1		
Fibrosis	7 [3.3]	12 [3.3]	11 [3.5]	15 [3.1]	5 [3.0]	5 [3.2]
Hematopoietic Cell Proliferation	52 [2.3]	46 [2.3]	35 [2.4]	36 [2.3]	16 [2.4]	13 [2.5]
Hemorrhage		1 [4.0]			1 [4.0]	
Hyperplasia, Lymphoid	5 [2.2]	6 [2.0]	1 [2.0]	3 [2.0]	1 [2.0]	
Hyperplasia, Stromal		1 [4.0]				
Necrosis	3 [3.0]	2 [4.0]	2 [3.5]	3 [4.0]	4 [3.8]	1 [4.0]
Pigmentation	67 [2.6]	64 [2.5]	43 [2.5]	37 [2.5]	14 [2.2]	18 [2.7]
Thrombosis						
Capsule, Fibrosis	2 [2.0]	2 [2.0]	2 [2.5]		2 [3.5]	
Thymus	(144)	(149)	(98)	(98)	(49)	(48)
Atrophy	136 [4.0]	142 [4.0]	93 [4.0]	91 [4.0]	47 [4.0]	45 [4.0]
Cyst				1		
Hemorrhage	1 [3.0]					
Hyperplasia, Lymphoid						
Necrosis				2 [4.0]	1 [4.0]	
Adventitia, Foreign Body				1		
Adventitia, Infiltration Cellular, Polymorphonuclear				2 [3.0]	1 [3.0]	
Epithelium, Hyperplasia						
INTEGUMENTARY SYSTEM						
Mammary Gland	(150)	(148)	(95)	(100)	(50)	(50)
Abscess						1 [4.0]
Fibrosis				1 [4.0]		
Galactocele	75	72	46	45	23	21
Hemorrhage	1 [4.0]	1 [4.0]			1 [2.0]	
Inflammation, Granulomatous	1 [4.0]		1 [3.0]	1 [4.0]	• •	2 [4.0]
Inflammation, Chronic			• •	2 [3.0]	1 [4.0]	
Inflammation, Chronic Active	1 [3.0]	1 [3.0]	1 [2.0]	1 [4.0]	1 [4.0]	
Pigmentation	1 [2.0]					

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan **CAS Number:** 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Alveolus, Dilatation	33 [2.3]	28 [2.2]	15 [2.3]	19 [2.3]	14 [1.6]	10 [2.8]
Epithelium, Hyperplasia	9 [1.7]	10 [1.6]	6 [2.0]	9 [1.7]	4 [1.0]	3 [1.7]
Lobular, Hyperplasia	13 [3.0]	17 [2.8]	13 [2.5]	15 [3.0]	7 [2.7]	4 [2.0]
Skin	(150)	(150)	(100)	(99)	(50)	(50)
Abscess	2 [4.0]	2 [4.0]	1 [3.0]	, ,	1 [4.0]	2 [4.0]
Cyst Epithelial Inclusion	4	5	5	1	5	3
Fibrosis	3 [3.3]	2 [3.5]	1 [4.0]	2 [4.0]	1 [4.0]	
Foreign Body						1
Hyperkeratosis	1 [3.0]	2 [4.0]				
Inflammation, Granulomatous			1 [1.0]			
Inflammation, Chronic Active				1 [4.0]		
Metaplasia, Osseous						
Ulcer						
Ear, Fibrosis						1 [3.0]
Ear, Epithelium, Hyperplasia					1 [2.0]	1 [1.0]
Ear, Sebaceous Gland, Hyperplasia					1 [1.0]	
Epithelium, Hyperplasia	1 [3.0]	1 [3.0]	1 [3.0]			
Tail, Cyst Epithelial Inclusion			2			
MUSCULOSKELETAL SYSTEM						
Bone	(5)	(1)	(0)	(0)	(1)	(0)
Rib, Cyst	ĺ	. ,	()	()	()	,
Tibia, Deformity	1					
Bone, Femur	(150)	(150)	(100)	(100)	(50)	(50)
Fibrosis	, ,	, ,	, ,	1 [3.0]	, ,	, ,
Fibrous Osteodystrophy	1 [2.0]	1 [2.0]	4 [2.0]	2 [2.5]	1 [2.0]	
Osteopetrosis			1 [4.0]	1 [4.0]		
Skeletal Muscle	(7)	(4)	(2)	(1)	(1)	(1)
Fibrosis	1 [4.0]	. ,	, ,	, ,	, ,	. ,
Necrosis			1 [4.0]			
Diaphragm, Hemorrhage			- ·			
Diaphragm, Infiltration Cellular, Polymorphonuclear						
Diaphragm, Necrosis						

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
NERVOUS SYSTEM						
Brain	(0)	(0)	(0)	(0)	(0)	(0)
Meninges, Mineralization						
Brain, Brain Stem	(150)	(150)	(99)	(100)	(50)	(50)
Compression	59 [3.2]	62 [3.2]	40 [3.2]	42 [3.0]	20 [2.7]	21 [3.0]
Hemorrhage	4 [2.8]	7 [2.7]	2 [2.0]	2 [3.0]	3 [1.7]	4 [2.0]
Necrosis	2 [3.0]	1 [3.0]				1 [3.0]
Brain, Cerebellum	(150)	(149)	(99)	(100)	(50)	(50)
Gliosis	,	1 [3.0]	,	,	,	,
Hemorrhage	1 [4.0]	5 [2.0]	2 [3.0]	2 [2.5]		1 [1.0]
Metaplasia, Osseous	,		1 [1.0]	,		,
Mineralization	1 [2.0]		,			
Necrosis	1 [4.0]	2 [3.0]	1 [4.0]		1 [4.0]	
Ventricle, Dilatation	2 [1.5]	1 [1.0]	1 [2.0]		. []	
Brain, Cerebrum	(150)	(150)	(99)	(100)	(50)	(50)
Compression	(133)	(100)	(00)	()	(00)	(00)
Cyst	1					
Gliosis	2 [3.0]	1 [1.0]			1 [4.0]	
Hemorrhage	3 [2.7]	4 [2.3]	3 [2.0]	1 [4.0]	1 [2.0]	3 [1.7]
Mineralization	1 [1.0]	2 [1.0]	1 [1.0]	. [•]	1 [1.0]	0[]
Necrosis	2 [4.0]	1 [3.0]	. [0]		1 [4.0]	
Ventricle, Dilatation	18 [1.4]	15 [1.5]	11 [1.9]	13 [1.2]	5 [1.0]	6 [1.3]
Peripheral Nerve	(1)	(1)	(1)	(1)	(0)	(0)
Spinal Cord, Cervical	(1)	(1)	(1)	(1)	(0)	(0)
Hemorrhage	(1)	(1)	(1)	1 [3.0]	(0)	(0)
Axon, Degeneration				1 [2.0]		
Spinal Cord, Lumbar	(1)	(1)	(1)	(1)	(0)	(0)
Axon, Degeneration	(1)	(1)	(1)	1 [2.0]	(0)	(0)
Spinal Cord, Thoracic	(1)	(1)	(1)	(1)	(0)	(0)
	(1)	(1)	(1)		(0)	(0)
Hemorrhage				1 [3.0]		
Axon, Degeneration				1 [2.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan **CAS Number:** 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
RESPIRATORY SYSTEM						
Lung	(150)	(149)	(99)	(100)	(50)	(50)
Bacterium				1		
Congestion		1 [4.0]		2 [3.5]		
Crystals	1 [2.0]				1 [2.0]	
Fibrosis				1 [3.0]		
Hemorrhage	4 [2.0]	3 [2.7]	3 [3.3]	2 [1.5]	1 [2.0]	1 [3.0]
Histiocytosis	1 [1.0]			1 [1.0]		
Infiltration Cellular, Histiocyte	35 [1.8]	29 [1.9]	16 [1.5]	18 [1.8]	13 [1.5]	13 [1.5]
Inflammation, Suppurative	2 [3.5]	2 [2.0]		2 [3.0]		
Inflammation, Chronic	1 [1.0]	1 [2.0]		2 [2.5]		
Inflammation, Chronic Active	2 [2.0]	1 [4.0]	1 [1.0]	1 [1.0]		
Metaplasia, Osseous	3 [1.0]	,	1 -1	,		
Mineralization	- []					
Necrosis	1 [3.0]	2 [2.5]	1 [3.0]	1 [1.0]		
Pigmentation	1 [2.0]	3 [2.0]	. []	. []		
Polyarteritis	1 [1.0]	1 [1.0]		1 [2.0]		
Thrombosis	. [•]	. [•]		. [=.0]	1	
Alveolar Epithelium, Hyperplasia	3 [3.0]	2 [3.5]	2 [2.5]	1 [4.0]	·	2 [1.5]
Bronchiole, Epithelium, Hyperplasia	0 [0.0]	2 [0.0]	1 [2.0]	. [•]		2 [1.0]
Mediastinum, Fibrosis			1 [2.0]		1 [3.0]	
Mediastinum, Hemorrhage					1 [0.0]	
Mediastinum, Inflammation, Suppurative					3 [4.0]	
Mediastinum, Inflammation, Chronic Active	1 [4.0]				3 [4 .0]	
Mediastinum, Necrosis	1 [4.0]			1 [4.0]	3 [4.0]	
Pleura, Bacterium				1 [4.0]	3 [4.0] 1	
Pleura, Foreign Body				1	1	
Pleura, Hemorrhage				1 [4.0]	1 [3.0]	
Pleura, Infiltration Cellular, Polymorphonuclear				1 [4.0]	1 [3.0]	
Pleura, Inflammation, Suppurative				1 [4.0] 1 [4.0]	1 [4.0]	
Pleura, Inflammation, Suppurative				1 [4.0] 1 [4.0]	ı [4 .0]	
Pleura, Necrosis				2 [4.0]	1 [4.0]	
Nose	(149)	(146)	(96)		(48)	(48)
	(143)	(140)	(90)	(97)	(40)	(40)
Cyst Foreign Rody	11	16	0	6	5	5
Foreign Body	11	16	9	6	5	5

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Inflammation, Suppurative	19 [1.6]	26 [1.7]	18 [1.8]	12 [1.7]	10 [1.4]	7 [1.9]
Necrosis				1 [4.0]		
Osteopetrosis			1 [4.0]	1 [4.0]		
Goblet Cell, Hyperplasia	3 [2.7]	2 [3.0]	1 [3.0]			
Trachea	(150)	(150)	(99)	(100)	(50)	(50)
Inflammation, Suppurative		1 [1.0]		1 [4.0]		1 [2.0]
Necrosis				1 [4.0]		
Epithelium, Erosion						1 [4.0]
SPECIAL SENSES SYSTEM						
Ear	(1)	(0)	(3)	(0)	(1)	(0)
Eye	(144)	(143)	(92)	(96)	(48)	(45)
Cataract	1 [2.0]	2 [1.0]	3 [1.7]	4 [1.5]	2 [3.0]	4 [1.5]
Hemorrhage						
Inflammation, Suppurative		1 [2.0]				
Metaplasia, Osseous				1 [2.0]		
Retinal Detachment				1 [4.0]		
Adventitia, Inflammation, Suppurative			1 [4.0]			
Cornea, Inflammation, Suppurative	1 [2.0]					
Cornea, Ulcer	1 [4.0]					
Optic Nerve, Degeneration						
Retina, Degeneration	10 [2.6]	7 [2.9]	4 [3.0]	8 [2.4]	4 [3.3]	5 [2.4]
Harderian Gland	(150)	(150)	(99)	(100)	(50)	(49)
Foreign Body			1			
Infiltration Cellular, Lymphocyte	6 [1.5]	6 [1.5]	2 [1.0]	5 [1.8]	1 [1.0]	1 [1.0]
Inflammation, Suppurative		1 [4.0]	1 [4.0]			
Inflammation, Chronic Active					1 [3.0]	
Polyarteritis	1 [2.0]					
Acinus, Degeneration	1 [1.0]	6 [2.7]	3 [2.7]	2 [2.0]	1 [3.0]	
Acinus, Hyperplasia	1 [3.0]	-	-	1 [4.0]	-	
Epithelium, Hyperplasia	1 [2.0]	1 [4.0]		- -		
Zymbal's Gland	(6)	(3)	(2)	(3)	(0)	(1)
Abscess	1 [4.0]					
Inflammation, Suppurative	2 [4.0]	1 [4.0]				

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan **CAS Number:** 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 104 wk	0.02 Furan 104wk	0.044 Furan104wk	0.092 Furan104wk	0.2 Furan 104 wk	0.44 Furan 104wk
Keratin Cyst	1					
URINARY SYSTEM						
Kidney	(150)	(150)	(99)	(100)	(50)	(49)
Casts Protein	1 [4.0]					
Cyst	4	7	1	1	2	2
Hydronephrosis	12 [1.4]	15 [1.5]	8 [2.0]	10 [1.7]	8 [1.6]	5 [1.4]
Infarct		1 [2.0]				
Inflammation, Suppurative						1 [1.0]
Mineralization						
Necrosis	1 [4.0]	1 [4.0]				
Nephropathy	148 [3.2]	147 [3.1]	98 [3.1]	99 [3.2]	49 [3.3]	49 [3.1]
Pigmentation	3 [3.7]	2 [3.5]		2 [3.5]		1 [4.0]
Polyarteritis		1 [4.0]				
Polycystic Kidney			1 [4.0]			
Thrombosis						
Capsule, Fibrosis		1 [2.0]				
Pelvis, Inflammation, Suppurative	1 [2.0]	3 [3.7]		1 [2.0]	1 [2.0]	2 [2.5]
Renal Tubule, Degeneration		3 [4.0]				
Renal Tubule, Dilatation		1 [4.0]				
Transitional Epithelium, Hyperplasia	27 [1.4]	39 [1.6]	25 [1.6]	23 [1.5]	14 [1.5]	9 [1.8]
Urethra	(0)	(2)	(0)	(1)	(0)	(0)
Bulbourethral Gland, Inflammation, Suppurative		1 [4.0]				
Lumen, Dilatation		1 [4.0]				
Urinary Bladder	(150)	(150)	(99)	(100)	(50)	(48)
Hemorrhage		1 [4.0]	1 [2.0]			
Inflammation, Suppurative		1 [3.0]				
Inflammation, Chronic				1 [1.0]		
Inflammation, Chronic Active		2 [1.0]			1 [3.0]	
Lumen, Dilatation	11 [3.9]	14 [3.9]	3 [3.3]	10 [3.9]	3 [4.0]	4 [3.5]
Serosa, Inflammation, Chronic Active				1 [2.0]	1 [2.0]	
Transitional Epithelium, Hyperplasia	2 [1.5]	8 [1.6]	4 [2.0]	3 [1.7]	1 [4.0]	2 [2.0]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Disposition Summary		
Animals Initially In Study	50	50
Early Deaths	30	30
Accidentally Killed		
Moribund Sacrifice	29	22
Natural Death		5
Survivors		-
Moribund Sacrifice	9	15
Natural Death	-	-
Terminal Sacrifice	12	8
Animals Examined Microscopically	50	50
	· · · · · · · · · · · · · · · · · · ·	
ALIMENTARY SYSTEM		
Esophagus	(50)	(50)
Bacterium		
Hemorrhage		
Inflammation, Suppurative		
Necrosis		
Perforation		
Ulcer		
Lumen, Dilatation		
Periesophageal Tissue, Foreign Body		1
Periesophageal Tissue, Hemorrhage		1 [4.0]
Periesophageal Tissue, Infiltration Cellular, Polymorphonuclear		1 [4.0]
Periesophageal Tissue, Necrosis		
Intestine Large, Cecum	(50)	(46)
Edema		
Hemorrhage		1 [2.0]
Inflammation, Suppurative		
Ulcer		
Lumen, Dilatation		
Mucosa, Hyperplasia		1 [2.0]
Intestine Large, Colon	(50)	(46)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Edema		
Inflammation, Chronic Active	1 [2.0]	
Necrosis	. [=.0]	
Ulcer	1 [2.0]	
Epithelium, Cyst	, ,,	1
Mucosa, Hyperplasia		2 [2.0]
Serosa, Inflammation, Chronic Active		
Intestine Large, Rectum	(50)	(48)
Anus, Inflammation, Chronic	()	, ,
Mucosa, Hyperplasia		2 [2.0]
Intestine Small, Duodenum	(50)	(47)
Inflammation, Suppurative	,	,
Inflammation, Chronic Active		
Necrosis		
Ulcer		
Mucosa, Hyperplasia		4 [2.3]
Intestine Small, Ileum	(49)	(46)
Necrosis	, ,	. ,
Mucosa, Hyperplasia		2 [2.0]
Intestine Small, Jejunum	(50)	(46)
Edema		
Infiltration Cellular, Polymorphonuclear		
Inflammation, Chronic Active		
Mucosa, Hyperplasia		
Serosa, Hemorrhage		
Serosa, Necrosis		
Liver	(50)	(49)
Angiectasis	1 [2.0]	1 [3.0]
Basophilic Focus	10	21
Cholangiofibrosis	47 [3.4]	49 [3.9]
Clear Cell Focus	7	6
Congestion		1 [3.0]
Deformity	1	1
Degeneration, Cystic	10 [1.9]	17 [2.2]
Eosinophilic Focus	2	7
Fibrosis		

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Test Type: CHRONIC
Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Granuloma	11 [1.5]	8 [2.1]
Hematopoietic Cell Proliferation	1 [1.0]	- f1
Hemorrhage	2 [4.0]	1 [4.0]
Hepatodiaphragmatic Nodule		2
Hyperplasia, Regenerative	7 [3.6]	12 [3.9]
Inflammation, Suppurative		
Inflammation, Chronic Active		1 [3.0]
Mixed Cell Focus	6	13
Pigmentation		1 [3.0]
Polyarteritis		
Tension Lipidosis	1 [3.0]	
Thrombosis	3	1
Vacuolization Cytoplasmic	23 [2.8]	37 [3.3]
Bile Duct, Biliary Tract, Cyst Multilocular		• •
Bile Duct, Biliary Tract, Hyperplasia	32 [3.2]	43 [3.6]
Bile Duct, Subcapsular, Hyperplasia	1 [1.0]	
Capsule, Fibrosis		
Capsule, Infiltration Cellular, Polymorphonuclear		
Capsule, Inflammation, Chronic Active		
Capsule, Necrosis		
Capsule, Pigmentation		
Centrilobular, Hepatocyte, Degeneration	20 [3.0]	19 [2.9]
Centrilobular, Hepatocyte, Necrosis		
Hepatocyte, Hypertrophy	2 [3.0]	5 [3.6]
Hepatocyte, Necrosis	5 [3.8]	4 [2.5]
Hepatocyte, Periportal, Degeneration		
Oval Cell, Hyperplasia	14 [3.1]	33 [3.1]
Periportal, Cytoplasmic Alteration	3 [2.0]	
Periportal, Vacuolization Cytoplasmic	3 [2.3]	3 [2.7]
Subcapsular, Fibrosis	1 [1.0]	-
Subcapsular, Inflammation, Chronic	1 [1.0]	
Subcapsular, Pigmentation	1 [1.0]	
Mesentery	(14)	(10)
Accessory Spleen		
Cyst		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

0.92 Furan 104wk	2 Furan 104 wk
1 [3 0]	
1 [5.0]	
11 [2 8]	9 [3.8]
(0)	(0)
(50)	(50)
(50)	(50)
4 [4 0]	
1 [1.0]	
	4 [4 0]
	1 [4.0]
4.54.03	
	0.10.41
	8 [2.4]
	7 [2.0]
1 [4.0]	
(50)	(50)
1 [1.0]	
	(48)
9 [3.1]	15 [2.8]
	1 [1.0]
13 [2.2]	19 [2.3]
	3 [4.0]
	9 [2.6]
	21 [2.5]
- [1	2 [3.5]
	1 [3.0] 11 [3.8] (0) (50) 1 [1.0] 1 [4.0] 7 [2.0] 14 [2.1] 1 [4.0] (50) 1 [1.0] (50) 9 [3.1]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

0.92 Furan 104wk	2 Furan 104 wk
	1 [4.0]
(50)	(48)
	1 [2.0]
	1 [3.0]
	1 [4.0]
, [=:0]	1 [4.0]
	. []
1 [2.0]	5 [2.4]
	(0)
(0)	(0)
(50)	(50)
1 [3.0]	
(50)	(50)
45 [2.2]	44 [2.0]
1	
1 [2.0]	
- ·	
2 [3.0]	1 [2.0]
r1	1
13	3
	-
	(50) 45 [2.2] 1

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan
CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Pericardium, Hemorrhage	1 [4.0]	
Pericardium, Infiltration Cellular, Polymorphonuclear	1 [2.0]	
Pericardium, Inflammation, Suppurative		
Pericardium, Inflammation, Chronic Active	1 [2.0]	
Pericardium, Necrosis	1 [2.0]	
Ventricle, Dilatation		
ENDOCRINE SYSTEM		
Adrenal Cortex	(50)	(50)
Accessory Adrenal Cortical Nodule	1	2
Angiectasis		1 [2.0]
Atrophy		
Cyst		
Fibrosis		
Hyperplasia		
Hypertrophy	2 [3.5]	1 [2.0]
Metaplasia, Osseous	1 [2.0]	
Necrosis		1 [1.0]
Pigmentation		
Polyarteritis		
Thrombosis		
Vacuolization Cytoplasmic	35 [2.6]	40 [2.4]
Capsule, Fibrosis		1 [4.0]
Adrenal Medulla	(50)	(50)
Fibrosis		
Hemorrhage		
Hyperplasia	19 [2.2]	21 [2.2]
Mineralization		
Necrosis		
Thrombosis		
Islets, Pancreatic	(50)	(50)
Angiectasis		
Hyperplasia	1 [4.0]	3 [1.7]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Necrosis		1 [4.0]
Parathyroid Gland	(50)	(50)
Angiectasis	(00)	(00)
Fibrosis	1 [2.0]	
Hyperplasia	7 [1.7]	19 [1.7]
Pituitary Gland	(50)	(50)
Hemorrhage	(00)	3 [4.0]
Pigmentation		رح.ب
Pars Distalis, Angiectasis		
Pars Distalis, Anglectasis	4	1
Pars Distalis, Cyst Pars Distalis, Hyperplasia	12 [2.5]	12 [2.3]
Pars Distalis, Pryperplasia Pars Distalis, Necrosis	12 [2.0]	12 [2.3]
Pars Intermedia, Cyst		
Pars Intermedia, Gyst Pars Intermedia, Hyperplasia	1 [3.0]	
Pars Nervosa, Cyst	ا [٥.٥]	
Pars Nervosa, Cyst Pars Nervosa, Hyperplasia		
Rathke's Cleft, Cyst		
Thyroid Gland	(50)	(50)
Cyst	(50)	(50)
Ectopic Thymus Fibrosis		
Ultimobranchial Cyst	07 [4 0]	20 [4 4]
C-cell, Hyperplasia	27 [1.3]	28 [1.4] 7
Follicle, Cyst	3	•
Follicular Cell, Hyperplasia		2 [1.5]
GENERAL BODY SYSTEM		
Peritoneum	(1)	(1)
Pigmentation		
Tissue NOS	(3)	(0)
Hemorrhage		
Inflammation, Suppurative		
Necrosis	1 [4.0]	
Mediastinum, Bacterium	1	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Furan

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Route: GAVAGE CAS Number: 110-00-9
Species/Strain: RATS/F 344/NCTR

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Mediastinum, Foreign Body	1	
Mediastinum, Hemorrhage	2 [3.5]	
Mediastinum, Inflammation, Suppurative	1 [4.0]	
Mediastinum, Inflammation, Chronic	1 [3.0]	
Mediastinum, Necrosis	2 [4.0]	
GENITAL SYSTEM		
Ductus Deferens	(0)	(0)
Epididymis	(50)	(50)
Degeneration, Cystic	()	()
Edema		1 [3.0]
Exfoliated Germ Cell	18 [2.4]	14 [2.7]
Fibrosis		
Hypospermia	27 [3.7]	26 [3.8]
Epithelium, Degeneration	25 [2.7]	26 [2.7]
Fat, Necrosis		
Lumen, Dilatation		
Mesothelium, Hyperplasia	1 [2.0]	1 [1.0]
Preputial Gland	(50)	(50)
Abscess	2 [4.0]	6 [4.0]
Edema		
Fibrosis	24 [2.8]	21 [2.7]
Hyperkeratosis	1 [4.0]	
Infiltration Cellular, Lymphocyte		
Inflammation, Suppurative	24 [3.6]	24 [3.3]
Inflammation, Chronic Active	19 [2.3]	18 [2.8]
Necrosis		1 [3.0]
Ulcer		
Acinus, Degeneration		
Acinus, Hyperplasia	1 [2.0]	1 [4.0]
Duct, Ectasia	28 [3.1]	29 [3.4]
Epithelium, Hyperplasia		
Prostate	(50)	(50)
Abscess		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Atrophy	7 [2.4]	10 [2.4]
Degeneration, Cystic	4 [2.0]	1 [2.0]
Fibrosis	2 [3.5]	1 [4.0]
Infiltration Cellular, Lymphocyte	r1	r - 1
Inflammation, Suppurative	33 [2.1]	36 [2.3]
Inflammation, Chronic Active	5 [3.0]	3 [2.0]
Mineralization		
Pigmentation		
Polyarteritis		1 [2.0]
Epithelium, Hyperplasia	8 [2.1]	14 [2.0]
Seminal Vesicle	(50)	(48)
Atrophy	18 [2.3]	17 [2.6]
Edema		
Fibrosis		
Inflammation, Suppurative		
Inflammation, Chronic Active		
Adventitia, Inflammation, Suppurative		
Epithelium, Hyperplasia		
Lumen, Dilatation	3 [2.3]	5 [2.6]
Serosa, Inflammation, Chronic Active		
Testes	(50)	(50)
Mineralization		3 [3.3]
Polyarteritis	8 [1.9]	12 [2.0]
Interstitial Cell, Hyperplasia	28 [1.5]	26 [1.5]
Seminiferous Tubule, Degeneration	33 [3.4]	37 [3.2]
HEMATOPOIETIC SYSTEM		
Bone Marrow	(50)	(49)
Fibrosis		
Hyperplasia, Megakaryocyte		1 [4.0]
Hypocellularity		
Myelostromal Proliferation		
Myeloid Cell, Hyperplasia	15 [3.1]	21 [3.0]
Lymph Node	(26)	(33)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan
CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Hyperplasia, Lymphoid		
Infiltration Cellular, Plasma Cell	1 [3.0]	
Inflammation, Granulomatous	1 [2.0]	
Axillary, Hemorrhage	. []	
Axillary, Hyperplasia, Lymphoid		
Axillary, Infiltration Cellular, Plasma Cell		
Axillary, Necrosis		1 [4.0]
Cervical, Hemorrhage		• •
Cervical, Hyperplasia, Lymphoid		
Cervical, Infiltration Cellular, Plasma Cell		
Deep Cervical, Necrosis		1 [4.0]
Hepatic, Hyperplasia, Lymphoid		2 [2.5]
Hepatic, Infiltration Cellular, Plasma Cell		
Hepatic, Inflammation, Granulomatous		1 [2.0]
Hepatic, Necrosis		1 [4.0]
Hepatic, Sinus, Dilatation		2 [2.5]
Inguinal, Hyperplasia, Lymphoid		
Inguinal, Infiltration Cellular, Plasma Cell		1 [4.0]
Inguinal, Infiltration Cellular, Polymorphonuclear		
Lumbar, Hemorrhage		
Lumbar, Hyperplasia, Lymphoid		1 [2.0]
Lumbar, Infiltration Cellular, Histiocyte		
Lumbar, Infiltration Cellular, Plasma Cell	1 [3.0]	2 [3.5]
Lumbar, Infiltration Cellular, Polymorphonuclear		
Lumbar, Necrosis		1 [4.0]
Lumbar, Pigmentation		
Lumbar, Sinus, Dilatation	3 [2.0]	3 [3.0]
Mediastinal, Congestion		
Mediastinal, Erythrophagocytosis		
Mediastinal, Hemorrhage		1 [2.0]
Mediastinal, Hyperplasia, Lymphoid		
Mediastinal, Infiltration Cellular, Plasma Cell		
Mediastinal, Necrosis		1 [4.0]
Mediastinal, Pigmentation	1 [4.0]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Mediastinal, Sinus, Dilatation		1 [2.0]
Pancreatic, Bacterium		1 [2.0]
Pancreatic, Hemorrhage	1 [4.0]	
Pancreatic, Hyperplasia, Lymphoid	6 [2.8]	6 [2.3]
Pancreatic, Infiltration Cellular, Histiocyte	0 [=.0]	0 [=.0]
Pancreatic, Infiltration Cellular, Plasma Cell	4 [2.3]	6 [2.8]
Pancreatic, Inflammation, Granulomatous	. [=.0]	- []
Pancreatic, Necrosis		1 [4.0]
Pancreatic, Pigmentation		
Pancreatic, Sinus, Dilatation		4 [3.3]
Popliteal, Infiltration Cellular, Plasma Cell		1 [3.0]
Popliteal, Sinus, Dilatation		1 [2.0]
Renal, Hemorrhage		
Renal, Hyperplasia, Lymphoid		3 [2.3]
Renal, Infiltration Cellular, Plasma Cell		4 [3.5]
Renal, Inflammation, Granulomatous		
Renal, Necrosis		1 [4.0]
Renal, Pigmentation		
Renal, Sinus, Dilatation	2 [2.0]	6 [3.0]
Lymph Node, Mandibular	(50)	(50)
Hemorrhage		
Hyperplasia, Lymphoid	15 [1.7]	13 [1.9]
Infiltration Cellular, Plasma Cell	18 [2.3]	22 [2.0]
Necrosis	1 [3.0]	1 [4.0]
Pigmentation		
Sinus, Dilatation	16 [2.3]	15 [2.6]
Lymph Node, Mesenteric	(50)	(50)
Hemorrhage		
Hyperplasia, Lymphoid	15 [1.7]	6 [1.8]
Infiltration Cellular, Histiocyte		
Infiltration Cellular, Mast Cell		
Infiltration Cellular, Plasma Cell	3 [2.0]	3 [2.0]
Inflammation, Granulomatous		1 [2.0]
Pigmentation		
Sinus, Dilatation	1 [4.0]	1 [2.0]
Spleen	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

CAS Number: 110-00-9 Species/Strain: RATS/F 344/NCTR

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
Accessory Spleen		
Atrophy		
Cyst		
Developmental Malformation		
Fibrosis	2 [4.0]	2 [4.0]
Hematopoietic Cell Proliferation	13 [2.3]	22 [2.8]
Hemorrhage	1 [4.0]	1 [4.0]
Hyperplasia, Lymphoid	,	,
Hyperplasia, Stromal		
Necrosis	2 [3.0]	1 [4.0]
Pigmentation	14 [2.4]	12 [2.4]
Thrombosis		1 [4.0]
Capsule, Fibrosis	1 [3.0]	1 [4.0]
Thymus	(50)	(49)
Atrophy	43 [3.9]	42 [4.0]
Cyst		1
Hemorrhage		
Hyperplasia, Lymphoid	1 [2.0]	
Necrosis	2 [4.0]	1 [4.0]
Adventitia, Foreign Body		
Adventitia, Infiltration Cellular, Polymorphonuclear	1 [2.0]	
Epithelium, Hyperplasia	1 [3.0]	
INTEGUMENTARY SYSTEM		
Mammary Gland	(48)	(50)
Abscess	(40)	(30)
Fibrosis		
Galactocele	18	24
Hemorrhage	10	27
Inflammation, Granulomatous		
Inflammation, Chronic		
Inflammation, Chronic Active		
Pigmentation		
. iginomation		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

0.92 Furan 104wk	2 Furan 104 wk
12 [1 8]	15 [2.4]
	10 [2.7]
	4 [4.0]
	(50)
(30)	(30)
4	6
	O
1 [4.0]	
	4.54.03
	1 [4.0]
1 [4.0]	
	1 [4.0]
1 [4.0]	
	1 [3.0]
(0)	(0)
(♥)	(0)
(50)	(50)
(00)	(00)
1 [3 0]	3 [1.7]
· [0.0]	0[1.11]
(2)	(0)
(~)	(0)
1 [2 0]	
۱ [۷.۷]	
1 [3.0]	
	12 [1.8] 1 [2.0] 1 [4.0] (50) 1 [4.0] 1 [4.0] 1 [4.0] (0) (50) 1 [3.0] (2) 1 [2.0] 1 [2.0]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
NERVOUS SYSTEM		
Brain	(1)	(0)
Meninges, Mineralization	1 [4.0]	()
Brain, Brain Stem	(50)	(50)
Compression	13 [2.8]	23 [3.0]
Hemorrhage		2 [2.5]
Necrosis		
Brain, Cerebellum	(50)	(50)
Gliosis	` ,	. ,
Hemorrhage		1 [2.0]
Metaplasia, Osseous		
Mineralization		
Necrosis		
Ventricle, Dilatation		
Brain, Cerebrum	(50)	(50)
Compression	1 [1.0]	
Cyst		
Gliosis		
Hemorrhage		3 [2.0]
Mineralization	1 [1.0]	
Necrosis		
Ventricle, Dilatation	2 [1.5]	3 [1.7]
Peripheral Nerve	(0)	(0)
Spinal Cord, Cervical	(0)	(0)
Hemorrhage		
Axon, Degeneration		
Spinal Cord, Lumbar	(0)	(0)
Axon, Degeneration		
Spinal Cord, Thoracic	(0)	(0)
Hemorrhage		
Axon, Degeneration		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 104wk	2 Furan 104 wk
RESPIRATORY SYSTEM		
Lung	(50)	(50)
Bacterium	,	,
Congestion	1 [4.0]	2 [2.5]
Crystals		
Fibrosis		
Hemorrhage	4 [2.3]	1 [3.0]
Histiocytosis	1 [1.0]	
Infiltration Cellular, Histiocyte	15 [1.9]	17 [1.5]
Inflammation, Suppurative		
Inflammation, Chronic	1 [2.0]	1 [4.0]
Inflammation, Chronic Active	1 [4.0]	
Metaplasia, Osseous		
Mineralization	1 [1.0]	
Necrosis	1 [3.0]	
Pigmentation		
Polyarteritis		
Thrombosis		
Alveolar Epithelium, Hyperplasia	2 [3.0]	3 [2.3]
Bronchiole, Epithelium, Hyperplasia	-	-
Mediastinum, Fibrosis		
Mediastinum, Hemorrhage	1 [4.0]	
Mediastinum, Inflammation, Suppurative	1 [4.0]	
Mediastinum, Inflammation, Chronic Active		
Mediastinum, Necrosis	1 [4.0]	
Pleura, Bacterium		
Pleura, Foreign Body		
Pleura, Hemorrhage		
Pleura, Infiltration Cellular, Polymorphonuclear		
Pleura, Inflammation, Suppurative		
Pleura, Inflammation, Chronic		
Pleura, Necrosis		
Nose	(50)	(48)
Cyst	1	
Foreign Body	6	7

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan **CAS Number:** 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

0.92 Furan 104wk	2 Furan 104 wk
9 [1.8]	9 [1.3]
(50)	(50)
(0)	(0)
	(47)
	6 [2.8]
	1 [3.0]
	1 [4.0]
3 [2.7]	6 [3.8]
(50)	(50)
3 [1.0]	1 [1.0]
	1 [2.0]
(1)	(1)
	. ,
1 [4.0]	
	9 [1.8] (50) (0) (50) 1 [3.0] 3 [2.7] (50) 3 [1.0]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Furan **CAS Number:** 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

0.92 Furan 104wk	2 Furan 104 wk
	1
,	
(50)	(50)
2	3
7 [1.6]	7 [1.7]
	1 [4.0]
49 [2.8]	49 [3.5]
4.54.01	
1 [4.0]	
	4 [0 0]
	1 [2.0]
12 [1 3]	19 [1.4]
	(0)
	(0)
(50)	(50)
(/	(/
1 [1.0]	
1 [4.0]	3 [4.0]
2 [1.0]	2 [1.5]
-	(50) 2 7 [1.6] 1 [4.0] 49 [2.8] 1 [4.0] (50) (50)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 10119 - 01

Test Type: CHRONIC

Route: GAVAGE

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/03/2014 AVERAGE SEVERITY GRADES[b]

Furan

CAS Number: 110-00-9

Time Report Requested: 08:42:42 First Dose M/F: 09/07/09 / NA

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE

Species/Strain: RATS/F 344/NCTR

0.92 Furan 104wk

2 Furan 104 wk

*** END OF REPORT ***